Fall 2016 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD2060	Overall LMA	Total LMA						
Reclamation District No. 2060 Hastings	Rating	Miles						
	U	15.65					Design 8	System
Rated Item		Maintena	nce Deficiancy		Enforc	ement	Obsole	scence
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<u>Earthen Levee</u> Vegetation	10.93		10.93	69.85%				
Encroachments	10.93		10.93	09.0376	1.68			
Slope Stability	0.01		0.01	0.06%	1.00			
Repair Gates	0.01		0.01	0.06%				
Supplemental	0.01		0.01	0.0078				
2015 USACE Erosion Survey, DRAFT	0.85		0.85	5.43%				
DWR UCIP Field Study					0.09			
LMA Totals:	11.80	0.00	11.80	75.41%	1.77	0.00	0.00	0.00
			1		l			
Unit No. 01 Lindsey Slough LB	Overall Unit Rating	Total Unit Miles						
	U	6.97						
RD2060	U						Design 8	System
Rated Item			nce Deficiancy			ement	Obsole	scence
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee Vegetation	9.97		9.97	143.02%				
Repair Gates	0.01		0.01	0.14%				
Supplemental	0.01		0.01	0.14%				
DWR UCIP Field Study					0.03			
Unit Totals:	9.98	0.00	9.98	143.16%	0.03	0.00	0.00	0.00
Unit No. 02 Ulatis Creek RB	Overall Unit Rating	Total Unit Miles						
RD2060	Α	3.64						
		Maintena	nce Deficiancy		Enforc	ement	Design 8 Obsole	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
Earthen Levee								
Vegetation	0.07		0.07	1.92%				
Encroachments					1.68			
Supplemental					0.00			
DWR UCIP Field Study	0.5-	0.00	0.5-	4.0557	0.03	0.00	0.00	0.66
Unit Totals:	0.07	0.00	0.07	1.92%	1.71	0.00	0.00	0.00
Unit No. 03 Cache Slough RB	Overall Unit Rating	Total Unit Miles						
RD2060	U	5.03						
. 10 2000			nce Deficiancy		Enforc	ement	Design 8	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles		Obsole M Miles	
Earthen Levee	111 1111100	O Milloo	10 1111103	.1110011010 70		5 111103		3 111103
Vegetation	0.89		0.89	17.68%				
Slope Stability	0.01		0.01	0.20%				
Supplemental								
2015 USACE Erosion Survey, DRAFT	0.85		0.85	16.89%				
DWR UCIP Field Study					0.03			
Unit Totals:	1.75	0.00	1.75	34.76%	0.03	0.00	0.00	0.00

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2060 Hastings

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	
	** Non-receipt of Summ Reports may effect or			
† SPRING INSPECTIONS: Overall maintenance deficiencies are rated		nined for the spring ins ria in the spring and in		ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u	•	•	on and maintenance de nded to be an indiction o	
Comments				

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 01 Lindsey Slough	Left	6.97

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/22/2016 - 3/22/2016		9/20/2016 - 9/20/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mr. Mark Boyd RD 2060 Hastings Tract		Mr. Mark Boyd RD 2060 Hastings Tract	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	09/20/2016 09/20/2016	Herman Phillips

LM Start		Rating **	Α	Issue No.		4	
LM End		Issue Type +	Ma	Location * CR			
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item		s & Maintenai	nce		0		0
item	Manuals				0		0
DWR ID	DWR ID DWR_RD2060_01_f _ 2014_4						
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			
RD 2060 has the O&M Manual on file.							

No Photos

LM Start		Rating **	Α	Issue No.		7	
LM End		Issue Type +	Ма	Location *		CR	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item		y Supplies &			٥		0
item	Equipmen	it			٥		0
DWR ID	DWR_RD2	060_01_f _ 201	4_7				
		Comn	nent Coc	le			
		Inspecto	or Comm	ent			
RD 2060 h	as emerge	ency supplies	on hand				

No Photos

LM Start		Rating **	Α	Issue No.		12
LM End		Issue Type +	Ма	Location *		CR
Category	Earthen L	evee		GPS La	atituc	le/Longitude
Calegory				Start		End
Item	Flood Pre	paredness &	Training		0	c
пеш					0	c
DWR ID	DWR_RD2	060_01_s _ 201	2_12			
		Comn	nent Cod	le		
			_			
		Inspecto	or Comm	ent		
RD 2060 h	as trained	staff for a floo	od fight.			

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	09/20/2016 09/20/2016	Herman Phillips

LM Start	0.00	Rating **	М	Issue No.		5	
LM End	5.08	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.2473	42°	38.263293°	
пеш				-121.6962	83°	-121.771557°	
DWR ID	DWR_RD2	060_01_f _ 201	6_5				
		Comn	nent Cod	de			
V1 : Contro easements		rass and wee	eds on th	e levee slo	pes a	and	
Inspector Comment							
Landside levee slope has been sprayed, sprayed grasses has not been removed from slope.							

Photo 1 of 1 : FA_2016_RD2060_241_5_20160920_00006.jpg



RD 2060 Landside slope looking downstream from levee mile 0.00.

LM Start	0.19	Rating **	М	Issue No.		8	
LM End	5.08	Issue Type +	Ma	Location * WS		WS	
Earthen Levee			GPS La	atitud	e/Longitude		
Calegory	Category			Start		End	
Item	Vegetatio	n		38.2474	67°	38.263293°	
item			-121.6996	38°	-121.771557°		
DWR ID DWR_RD2060_01_f _ 2016_8							
Comment Code							

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Sprayed weeds has not been taken off levee section. Remove the small oak trees in area while they are still small.

No Photos

LM Start	1.82	Rating **	С	Issue No.	Issue No. 13			
LM End	1.82	Issue Type +	Ма	Location *	WS			
Category	Earthen L	evee		GPS La	titud	e/Longitude		
Calegory				Start 38.256048		End		
Item	Slope Sta	bility		38.2560	48 °	38.256048	0	
item				-121.7243	03 °	-121.724303	٥	
DWR ID	DWR_RD2	060_01_s _ 201	6_13					
	Comment Code							

S1: Repair slope instability.

Inspector Comment

Repairs are needed to this site. Need rock.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	09/20/2016 09/20/2016	Herman Phillips

LM Start	3.65	Rating **	М	Issue No.		16	
LM End	3.65	Issue Type +	En	Location *	WS		
Category	Suppleme	ental	al GPS La			e/Longitude	
Calegory				Start		End	
Item	DWR UCI	P Field Study		38.26131	4 °	38.261314°	
пеш				-121.74919)1 °	-121.749191°	
DWR ID						·	

Inspector Comment

Comment Code

FS_ID:41908 DS_ID:22050 EP_NO: 10119

Repair Type: Non-Urgent
Crossing Status: Indicator Found

UCIP Comments: Need to contact owner and verify status of crossing. FIELD_STRUCT_DESC: 8-5/8-inch gas pipeline crosses Lindsey Slough to R.D. 536. Gasline marker on LS and sign board on WS.

(Permit no. 10119) FS Date: 8/15/2013

LM Start	3.65	Rating **	М	Issue No.	16 (cont)
LM End	3.65	Issue Type +	En	Location *	WS



WS view: gasline sign board on levee slope.

Photo 2 of 2: UCIP_FA_2016_41908_30540.jpg



LS view: gasline indicator across the road from levee toe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	09/20/2016 09/20/2016	Herman Phillips

LM Start	3.76	Rating **	М	Issue No.		15	
LM End	3.76	Issue Type +	En	Location *	WS		
Category	Suppleme	ental		GPS Lat	titude/Longitude		
Calegory				Start		End	
Item	DWR UCI	P Field Study		38.26121	1 °	38.261211	٥
пеш				-121.75111	7°	-121.751117	٥
DWR ID							

Inspector Comment

Comment Code

FS_ID:41878 DS_ID:22045 EP_NO: 12784

Repair Type: Non-Urgent
Crossing Status: Indicator Found

UCIP Comments: Need to contact owner to determine status and install

signs if appropriate.

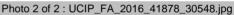
FIELD_STRUCT_DESC: 8.625-inch diameter natural gas pipeline across the channel and both levees of Lindsey Slough. 4 feet below the crown. Gasline marker found off LS (Permit No. 12784).

FS Date: 8/15/2013

LM Start	3.76	Rating **	М	Issue No.	15 (cont)
LM End	3.76	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_41878_30549.jpg

LS view: a gas plant and gasline indicator found on LS.





LS view: closer view of gasline indicator found on LS.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lindsey Slough	Left	6.97	09/20/2016 09/20/2016	Herman Phillips

LM Start	4.46	Rating **	M	Issue No.	14		
LM End	4.46	Issue Type +	En	Location *	WS		
Category	Suppleme	ental		GPS La	atitud	e/Longitude	
Calegory				Start Er		End	
Item	DWR UC	IP Field Study		38.2604	14 °	38.260414	0
пеш				-121.7629	43 °	-121.762943	0
DWR ID							
		Comn	nent Cod	de			

No Photos

Inspector Comment

FS_ID:41988 DS_ID:22051 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: Dense vegetation on both levee slopes.

FIELD_STRUCT_DESC: 24-inch abandoned pipe through the levee 17.0 feet below the crown. Closed slide gate (inoperable) on waterward

end. Hasting Farms. (Not on encroachment list.)

FS Date: 8/15/2013

LM Start	5.08	Rating **	М	Issue No.		6	
LM End	5.08	Issue Type +	Ма	Location *		CR	
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Repair Ga	ites		38.2631	57°	38.263157°	
пеш				-121.7715	43 °	-121.771543°	
DWR ID DWR_RD2060_01_s _ 2012_6							
		Comn	nent Cod	de			
		Inspecto	or Comm	nent			

No Photos

* Location

N/A: Not Applicable LS: Land Side WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N: Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 02 Ulatis Creek	Right	3.64

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	3/22/2016 - 3/22/2016		9/20/2016 - 9/20/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mr. Mark Boyd RD 2060 Hastings Tract		Mr. Mark Boyd RD 2060 Hastings Tract	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	09/20/2016 09/20/2016	Herman Phillips

LM Start	0.00	Rating **	М	Issue No.		13	
LM End	0.00	Issue Type +	En	Location *		LS	
Cotogony	Category Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
ltom	DWR UC	P Field Study		38.2894	74°	38.289474°	
пеш	Item			-121.7759	14°	-121.775914°	
DWR ID						·	
Comment Code							

Inspector Comment

FS_ID:46769 DS_ID:22059 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: - Abandoned pump structure in stream needs proper

abandonment- Not accessible due to wired fence

FIELD_STRUCT_DESC: *ABANDONED* pump structure in stream and a concrete distribution on landside. Not accessible due to wired fence.

FS Date: 8/15/2013

LM Start	0.00	Rating **	М	Issue No.	13 (cont)
LM End	0.00	Issue Type +	En	Location *	LS



WS view: abandoned pump support in stream/channel. Not accessible due to vegetation.

Photo 2 of 2: UCIP_FA_2016_46769_31087.jpg



LS view: abandoned concrete distribution box. Not accessible due to wire fence.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	09/20/2016 09/20/2016	Herman Phillips

LM Start	0.01	Rating **	Α	Issue No.		8	
LM End	3.64	Issue Type +	Ma	Location *		LS	
Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Item	Vegetation			38.2750	82°	38.296645°	
item		-121.7949	38°	-121.748772°			
DWR ID	R ID DWR_RD2060_02_f _ 2016_8						
		Comn	nent Cod	de			
V1 : Contro easements		rass and wee	eds on th	e levee slop	oes :	and	
Inspector Comment							
There are no unwanted weeds or vegetation on the levee section both waterside and landside.							

Photo 1 of 1: FA_2016_RD2060_242_8_20160920_00010.jpg



Looking downstream from levee mile 0.01 Unit 2 RD 2060.

LM Start	0.05	Rating **	Α	Issue No.		10
LM End	3.64	Issue Type +	Ma	Location *		WS
Category Earthen Levee			GPS Latitude/Longitude			
			Start		End	
Item	Vegetation			38.2755	10°	38.296645°
пеш				-121.7952	98°	-121.748772°
DWR ID	DWR ID DWR_RD2060_02_f _ 2016_10					
Comment Code						

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

No Photos

LM Start 0.12 Rating ** M Issue No. 2 LM End 1.78 Issue Type + En Location * WS							
EMOUNT OF THE PROPERTY OF THE							
I M Fnd 1.78 Issue Type + En Location * WS							
2 2							
Category Earthen Levee GPS Latitude/Longitude							
Start End							
Encroachments 38.276351 ° 38.28581	9°						
-121.795922 ° -121.77694	2°						
DWR ID DWR_RD2060_02_s _ 2013_2							
Comment Code							
FE: Fence							
Inspector Comment							
This fence has no permit. (Electric fence.)							

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	09/20/2016 09/20/2016	Herman Phillips

LM Start	1.74	Rating **	М	Issue No.		11
LM End	1.74	Issue Type +	En	Location *		WS
Category			GPS Latitude/Longitude			
Calegory	Category			Start		End
Item	DWR UCI	P Field Study		38.2852	19°	38.285219°
пеш				-121.7770	85 °	-121.777085 °
DWR ID						
Comment Code						

Inspector Comment

FS_ID:18386 DS_ID:22056 EP_NO: 10148

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: U-type conrete headwall on LS. Not accessible due to

fence. Vegetation is partially blocking inlet & outlet pipe.

FIELD_STRUCT_DESC: 24-inch CM drainpipe through levee, 16.0 feet below crown, flap gate on waterward end. U-type conrete headwall on LS. Not accessible due to fence. Vegetation is partially blocking inlet & outlet pipe.

FS Date: 8/15/2013

LM Start	1.74	Rating **	М	Issue No.	11 (cont)
LM End	1.74	Issue Type +	En	Location *	WS

Photo 1 of 2: UCIP_FA_2016_18386_30873.jpg



WS view: overview of CMP from levee.

Photo 2 of 2: UCIP_FA_2016_18386_30872.jpg



WS view: CM pipe with flap gate. Not accessible. Vegetation is partially blocking outlet pipe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	09/20/2016 09/20/2016	Herman Phillips

296	6				
240	0 9				
DWR ID DWR_RD2060_02_s _ 2013_5					
2					

No Photos

LM Start	2.15	Rating **	М	Issue No.		12	
LM End	2.15	Issue Type +	En	Location *		LS	
Category	Supplemental			GPS La	Latitude/Longitude		
Category	ategory		Start		End		
Item	DWR UC	IP Field Study		38.2904	10°	38.290440°	
пеш				-121.77480	08°	-121.774808°	
DWR ID						·	

Comment Code

Inspector Comment

FS_ID:41668 DS_ID:22060 EP_NO: 5927

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: verify pipe has been abandoned properly. abandoned pump and pipe.- electrical box on WS shoulder.

FIELD_STRUCT_DESC: *Abandoned* 18-inch steel pipe through levee 4.0 feet below crown, siphon breaker on landward slope. Pump on piling on bank, distribution box at landward toe. (Permit No. 5927 - Cache Slough Pheasant Club).

FS Date: 8/15/2013

Photo 1 of 2: UCIP_FA_2016_41668_31161.jpg



WS view: electrical box on pole and pump structure in background.

LS: Land Side N/A: Not Applicable WS: Water Side

A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	09/20/2016 09/20/2016	Herman Phillips

LM Start	2.15	Rating **	М	Issue No.		12 (cont)	
LM End	2.15	Issue Type +	En	Location *	LS		
Category			GPS Latitude/Longitude				
Category		Start		End			
ltom	DWR UCIP Field Study		38.290440 °		38.290440	0	
пеш	Item			-121.7748	08°	-121.774808	0
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:41668 DS_ID:22060 EP_NO: 5927

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: verify pipe has been abandoned properly. - abandoned pump and pipe.- electrical box on WS shoulder.

FIELD_STRUCT_DESC: *Abandoned* 18-inch steel pipe through levee 4.0 feet below crown, siphon breaker on landward slope. Pump on piling on bank, distribution box at landward toe. (Permit No. 5927 - Cache

Slough Pheasant Club). FS Date: 8/15/2013

Photo 2 of 2 : UCIP_FA_2016_41668_31160.jpg

WS view: pump on pile structure with stairs on bank.

LM Start	2.22	Rating **	M	Issue No.		6	
LM End	2.22	Issue Type +	En	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category						End	
Item	Encroachments			38.290475°		38.290475 °	
item				-121.7733	90°	-121.773390°	
DWR ID	DWR ID DWR_RD2060_02_s _ 2013_6						
Comment Code							
DT : Ditch							

DT : DILCH

Inspector Comment

This ditch used for irrigation is not a new issue.

Photo 1 of 1: FA_2016_RD2060_242_6_20160913_00001.jpg



This ditch encroaches within the 10-foot easement. Photo taken 3-28-2013. No new photo was taken of this ditch during the Spring Inspection of 2014.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Ulatis Creek	Right	3.64	09/20/2016 09/20/2016	Herman Phillips

LM Start	3.54	Rating **	M	Issue No.		9
LM End	3.61	Issue Type +	Ма	Location *		LS
Category Earthen Levee			GPS La	atitud	e/Longitude	
Calegory	Calegory					End
Item	Vegetatio	n		38.2963	70°	38.296730°
пеш				-121.750608°		-121.749303°
DWR ID DWR_RD2060_02_s _ 2016_9						
		Comn	nent Coc	de		
V2: Remo	ve the wild	d growth other	than na	tive grasse	s fro	m the levee
оюрсо.		Inanasta	or Comm	ont		
		mspecia	or Comm	IEIIL		

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles
Unit No. 03 Cache Slough	Right	5.03

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/22/2016 - 3/22/2016		9/20/2016 - 9/20/2016	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mr. Mark Boyd RD 2060 Hastings Tract		Mr. Mark Boyd RD 2060 Hastings Tract	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

0.01	Rating **	Α	Issue No.		13		
3.50	Issue Type +	Ma	Location *		LS		
Earthen L	evee		GPS La	atitud	e/Longitude		
			Start		End		
Vegetation	า		38.2966	38°	38.267223°		
			-121.7486	55°	-121.702818°		
DWR_RD2	060_03_f _ 201	6_13			·		
	Comn	nent Cod	de				
ol annual g s.	rass and wee	eds on th	e levee slo	pes a	and		
	Inspecto	or Comm	nent				
No unwanted vegetation on the levee slopes.							
	3.50 Earthen L Vegetation DWR_RD2	3.50 Issue Type + Earthen Levee Vegetation DWR_RD2060_03_f _ 201 Commol annual grass and weeks. Inspector	3.50 Issue Type + Ma Earthen Levee Vegetation DWR_RD2060_03_f_2016_13 Comment Cocol annual grass and weeds on the cocol. Inspector Comment	3.50 Issue Type + Ma Location * Earthen Levee GPS L: Start Vegetation 38.2966 -121.7486 DWR_RD2060_03_f _ 2016_13 Comment Code of annual grass and weeds on the levee slope. Inspector Comment	3.50 Issue Type + Ma Location * Earthen Levee GPS Latitud Start Vegetation 38.296638 ° -121.748655 ° DWR_RD2060_03_f _ 2016_13 Comment Code of annual grass and weeds on the levee slopes as a large of the start		



RD 2060 Looking downstream from levee mile 0.01 waterside slope.

LM Start	0.01	Rating **	Α	Issue No.		14
LM End	3.54	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Vegetatio	n		38.2966	38°	38.266833°
пеш				-121.7486	55 °	-121.702338°
DWR ID	DWR_RD2	060_03_f _ 201	6_14			
		Comn	nent Cod	de		
V1 : Contro easements		rass and wee	ds on th	e levee slop	oes a	and
Inspector Comment						

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

LM Start	0.90	Rating **	М	Issue No.		18	
LM End	0.90	Issue Type +	En	Location *	WS		
Category	ental	GPS Latitude/Longitude					
Calegory	Category					End	
Item	DWR UCI	P Field Study		38.29068	4 °	38.290684°	
пеш				-121.73566	8°	-121.735668°	
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:18727 DS_ID:22067 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Seem abandoned.Not found- pump on LS. Needs

more exploration.

FIELD_STRUCT_DESC: 6-inch steel pipe through the levee, 2.8 feet

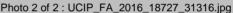
below the crown. O&M Manual SAC 107, April 1959.

FS Date: 8/15/2013

LM Start	0.90	Rating **	М	Issue No.	18 (cont)
LM End	0.90	Issue Type +	En	Location *	WS



Waterside view: levee slope.





Waterside view: levee slope and a steel pipe.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

LM Start	0.90	Rating **	М	Issue No.		17	
LM End	0.90	Issue Type +	En	Location *		WS	
Supplemental				GPS La	titud	e/Longitude	
Category	tegory					End	
Item	DWR UCI	P Field Study		38.2906	84 °	38.290684°	
пеш			-121.73563	39°	-121.735639°		
DWR ID						·	
	Comment Code						

Inspector Comment

FS_ID:18726 DS_ID:22063 EP_NO: 6342

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: Leaky siphon breaker may need to be repaired.

Dense vegetation on WS.Not found- gate valve on LS.

FIELD_STRUCT_DESC: 16-inch steel pipe through levee 8.0 feet below crown, vertical pump in drain ditch on land-side. Siphon breaker on waterside. (App. No. 6342-A - Hastings Farms)

FS Date: 8/15/2013

LM Start	0.90	Rating **	М	Issue No.	17 (cont)
LM End	0.90	Issue Type +	Fn	Location *	WS



Landside view: pump, service pole, steel support structure, walkway, and pipe.

Photo 2 of 2: UCIP_FA_2016_18726_31313.jpg



Landside view: pipe and pump on steel structure in drain ditch.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

LM Start	1.52	Rating **	М	Issue No.	8		
LM End	1.74	Issue Type +	Ma	Location *		WS	
Supplemental				GPS La	atitud	le/Longitude	
Category			Start		End		
Item		CE Erosion S	Survey,	38.2885	98°	38.286051°	
item	DRAFT			-121.7251	84°	-121.722818°	
DWR ID DWR_RD2060_03_s _ 2016_8							
Comment Code							

Inspector Comment

Site added in 1997 and removed in 2003. 2005 - Put back in the inventory. 2006 - Stone repair at the middle of the site. 2011 - Some rock place at toe in the past year. 2013 - Site extended both upstream and downstream to include new erosion pockets. 2015: No observed changes. [2015 Site ID: CHS_23-6_R]



USACE 2013 Photo #1

LM Start	2.02	Rating **	М	Issue No.		1
LM End	2.08	Issue Type +	Ma	Location *	WS	
Category	ental	GPS La	atitud	e/Longitude		
Calegory			Start		End	
Item		CE Erosion S	Survey,	38.2841	05°	38.283302 °
item	DRAFT			-121.7184	71 °	-121.717814°
DWR ID DWR_RD2060_03_s _ 2016_1						
Comment Code						

Inspector Comment

2010 - Small maintenance site. 2015: No observed changes. [2015 Site ID: CHS_23-0_R]

Photo 1 of 1: FA_2016_RD2060_243_1_20160913_00001.jpg

USACE 2013 Photo #1

LM Start	2.18	Rating **	М	Issue No.		7		
LM End	2.23	Issue Type +	Ma	Location *		WS		
Category				GPS Latitude/Longitude				
Category		Start		End				
Item		CE Erosion S	Survey,	38.2821	00°	38.281510°		
пеш	DRAFT		-121.7168	17°	-121.716319°			
DWR ID DWR_RD2060_03_s _ 2016_7								
	Comment Code							

Inspector Comment

2007 - Geotechnical failure of midside slope and wave wash/scalloping in toe area. Stone revetment upstream and downstream of site. Similar sites are present all along the right bank downstream of this site, most could be repaired with some maintenance. 2010 - Minor new erosion. 2015: No observed changes. [2015 Site ID: CHS_22-8_R]

Photo 1 of 1: FA_2016_RD2060_243_7_20160913_00006.jpg



USACE 2013 Photo #1

* Location	** Rating		+ Issue Type	
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement	
Thursday, December 08, 2016 11:40		FINAL DATA		Page 4 of 8

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

LM Start	2.29	Rating **	A/W	Issue No.		3
LM End	2.80	Issue Type +	Ob	Location *		WS
Category	Earthen L	evee		GPS L	atitud	e/Longitude
Calegory				Start		End
Item	Vegetatio	/egetation			19°	38.275177°
item			-121.715756°		-121.709777°	
DWR ID	DWR_RD2	060_03_s _ 201	2_3			
		Comn	nent Cod	de		
V8 : Enviro	onmental F	Requirements.				
		Inspecto	or Comm	nent		
Veg site.						

No Photos

LM Start	2.35	Rating **	М	Issue No.		4	
LM End	2.53	Issue Type +	Ma	Location *		WS	
Category			GPS Latitude/Longitude				
Category				Start		End	
Item	2015 USACE Erosion Survey,			38.280377°		38.278306°	
пеш	DRAFT			-121.7146	33°	-121.712722°	
DWR ID	DWR_RD2	060_03_s _ 201	6_4				
	Comment Code						

Inspector Comment

2008 - Small scour pockets and mid-slope wave wash. 2010 - More vegetation growth, could be fixed through maintenance. 2011 - Site extended downstream and new erosion. 2015: No observed changes. [2015 Site ID: CHS_22-6_R]

Photo 1 of 1 : FA_2016_RD2060_243_4_20160913_00003.jpg



USACE 2013 Photo #1

LM Start	2.55	Rating **	М	Issue No.		5	
LM End	2.58	Issue Type +	Ma	Location *		WS	
Category				GPS Latitude/Longitude			
Category			Start		End		
Item		2015 USACE Erosion Survey,			45°	38.277774°	
itom	DRAFT			-121.7126	09 °	-121.712137°	
DWR ID	DWR ID DWR_RD2060_03_s _ 2016_5						
	Comment Code						

Inspector Comment

2013 - Erosion pockets into the levee toe. 2015: Erosion pockets have increased in size. [2015 Site ID: CHS_22-5_R]

Photo 1 of 1: FA_2016_RD2060_243_5_20160913_00004.jpg



USACE 2013 Photo #1

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Ap	olicable A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acce	eptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

	0.70	Dating **	N.4	Issue No.	1				
LM Start	2.79	Rating **	М	issue ivo.		6			
LM End	2.79	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS L	atitud	e/Longitude			
Calegory				Start		End			
Item	Slope Sta	bility		38.2753	302°	38.275302°			
item				-121.7101	30°	-121.710127°			
DWR ID DWR_RD2060_03_s _ 2016_6									
	Comment Code								
S1 : Repai	r slope ins	tability.							
		Inspecto	or Comm	nent					

Photo 1 of 1 : FA_2016_RD2060_243_6_20160913_00005.jpg

USACE 2013 Photo #1

Rating ** A/W Issue No. LM Start 3.17 12 Issue Type + Location * WS LM End 3.23 Earthen Levee GPS Latitude/Longitude Category Start End Vegetation 38.270863° 38.270324° -121.706800 ° -121.705904 ° DWR ID DWR_RD2060_03_s _ 2012_12 Comment Code

V8 : Environmental Requirements.

Inspector Comment

There was a fire this spring that burned this revegetation site, during the 2012 inspection new growth has sprouted up. During the 2013 inspection new sprouts continue to come up.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

LM Start	3.24	Rating **	М	Issue No.		16	
LM End	3.24	Issue Type +	En	Location *		WS	
Category Supplemental			GPS Latitude/Longitude				
			Start		End		
Item	DWR UCI	P Field Study		38.2701	51 °	38.270151 °	
пеш				-121.7057	82 °	-121.705782°	
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:18723 DS_ID:22064 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: Only a CMP riser was found on WS.
FIELD_STRUCT_DESC: Only a CMP riser was found WS. All other features not found as described: 36-inch steel pipe through levee 15.0 feet below crown, slide gate in CM riser on waterward slope. (Asbestos bonded pipe.) Pump in pump house on pile structure in stream. Service pole and anchor on landward slope. Only a CMP riser was found WS. FS Date: 8/15/2013

LM Start	3.24	Rating **	М	Issue No.	16 (cont)
LM End	3.24	Issue Type +	En	Location *	WS

Photo 1 of 2: UCIP_FA_2016_18723_31303.jpg



WS view: slide gate in CMP riser (bottom- marked) and may be abandoned pile for pump support (marked-right).

Photo 2 of 2: UCIP_FA_2016_18723_31302.jpg



WS view: closer view of slide gate in CMP riser.

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2060 Hastings

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Cache Slough	Right	5.03	09/20/2016 09/20/2016	Herman Phillips

LM Start	3.58	Rating **	M	Issue No.	15			
LM End	4.47	Issue Type +	Ма	Location *	WS			
Category	Earthen Levee			GPS Latitude/Longitude				
				Start		End		
Item	Vegetation			38.2664	90°	38.255363 °		
				-121.7018	02°	-121.694725°		
DWR ID	DWR_RD2060_03_f _ 2016_15							
Comment Code								
V1 : Control annual grass and weeds on the levee slopes and easements.								
Inspector Comment								
Control the vegetation on the waterside slope between levee mile 3.58-4.47,other wise everything else looks good.								

No Photos

LM Start	3.78	Rating **	М	Issue No.	2			
LM End	4.09	Issue Type +	Ma	Location *	WS			
Category	Supplemental			GPS Latitude/Longitude				
				Start		End		
Item	2015 USACE Erosion Survey, DRAFT			38.26458	35°	38.260593°		
				-121.69886	88°	-121.696403°		
DWR ID	DWR_RD2060_03_s _ 2016_2							
Comment Code								

Inspector Comment

2011 - Several pockets of erosion from rotational failure and slumping toe. 2013 - Site extended downstream to include new erosion pockets. 2015: No observed changes. [2015 Site ID: CHS_21-1_R]

Photo 1 of 1: FA_2016_RD2060_243_2_20160913_00002.jpg



USACE 2013 Photo #1